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PATENT APPLICATION
Navy Case 84,886

In the Specification:

Please amend paragraph [0064] as follows:

Task JOA includes pre-critical section 608, sync indicator 708, critical section 610, end sync indicator ~~612~~ 712, and post-critical section ~~712~~ 612. Task JOB includes pre-critical section 628, sync indicator 718, and critical section 630. End critical section signals 724 and 726 are signals received from a processing element upstream from PE-0 (not shown in FIG. 7).

Please amend paragraph [0096] as follows:

End stores connections 908A-908H provide additional connections between processing elements 902A-902E. Processing element ~~904A~~ 902A is connected to processing element 902D via end stores connection 908B. Processing element 902B is connected to processing element 902E via end stores connection 908D. Each of processing elements 902A-902E includes an incoming end stores connection and an outgoing end stores connection. Partial end stores connections (i.e., end stores connections 908A, 908C, 908E, 908F, 908G, and 908H) are to processing elements not shown in FIG. 9 (i.e., farther upstream or downstream from the shown processing elements). For example, end stores connection 908A connects processing element 902A to a processing element further upstream.